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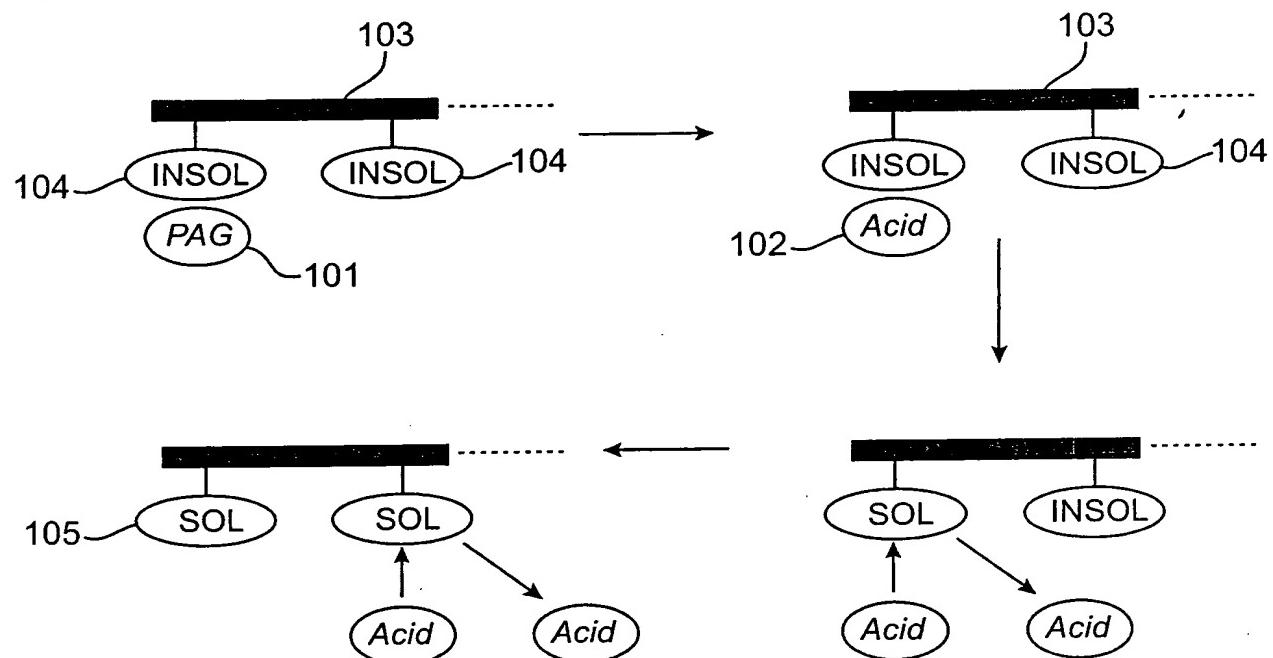


FIG. 1

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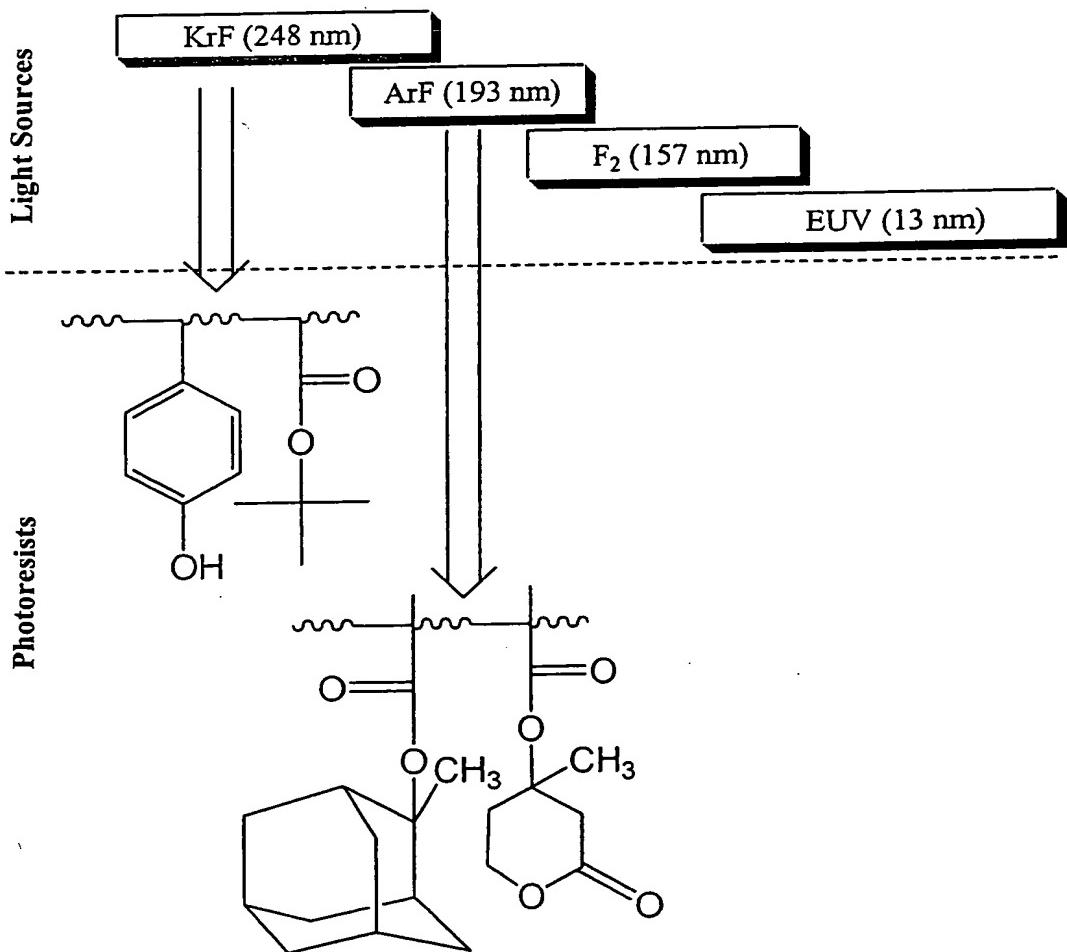


FIG. 2

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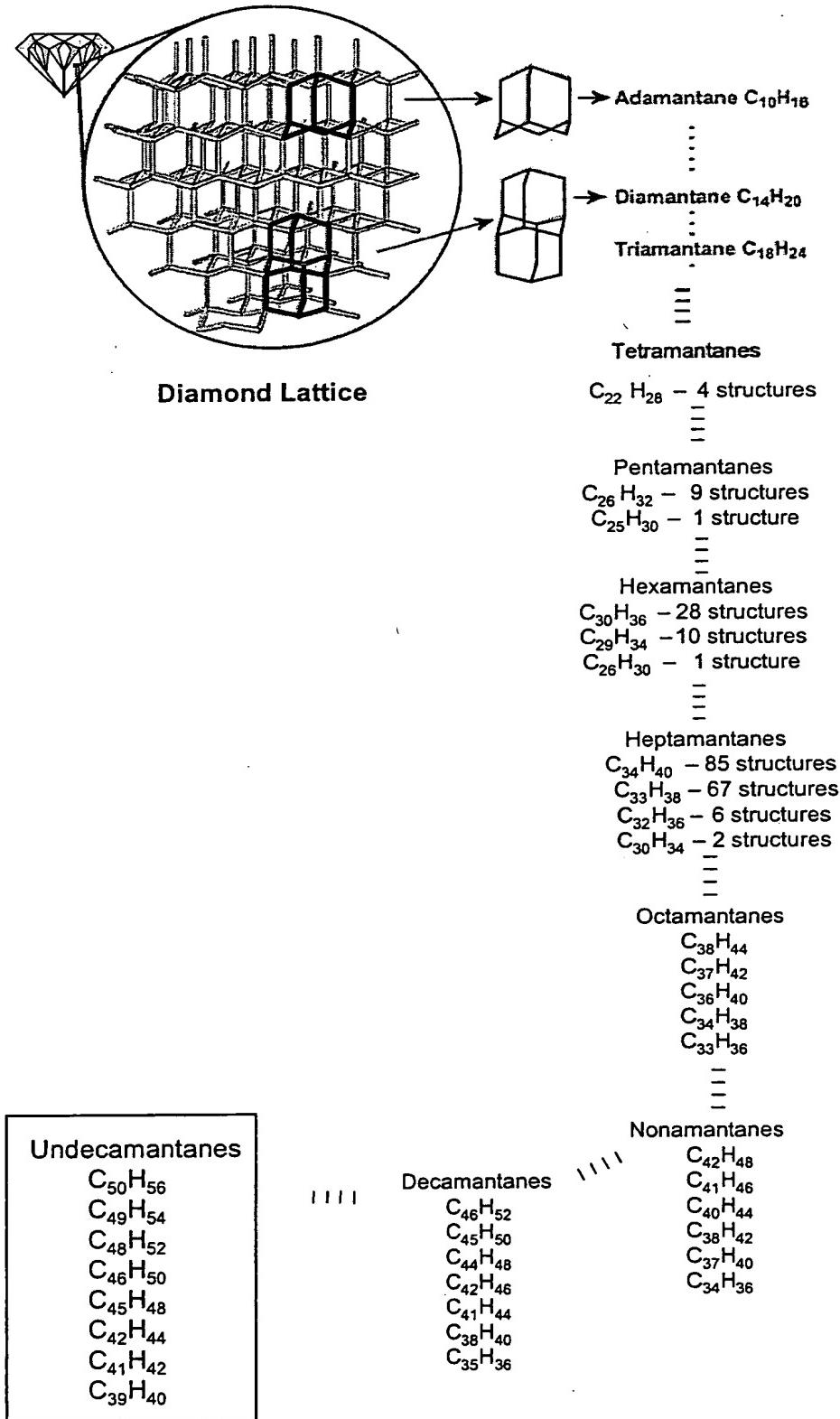


FIG. 3

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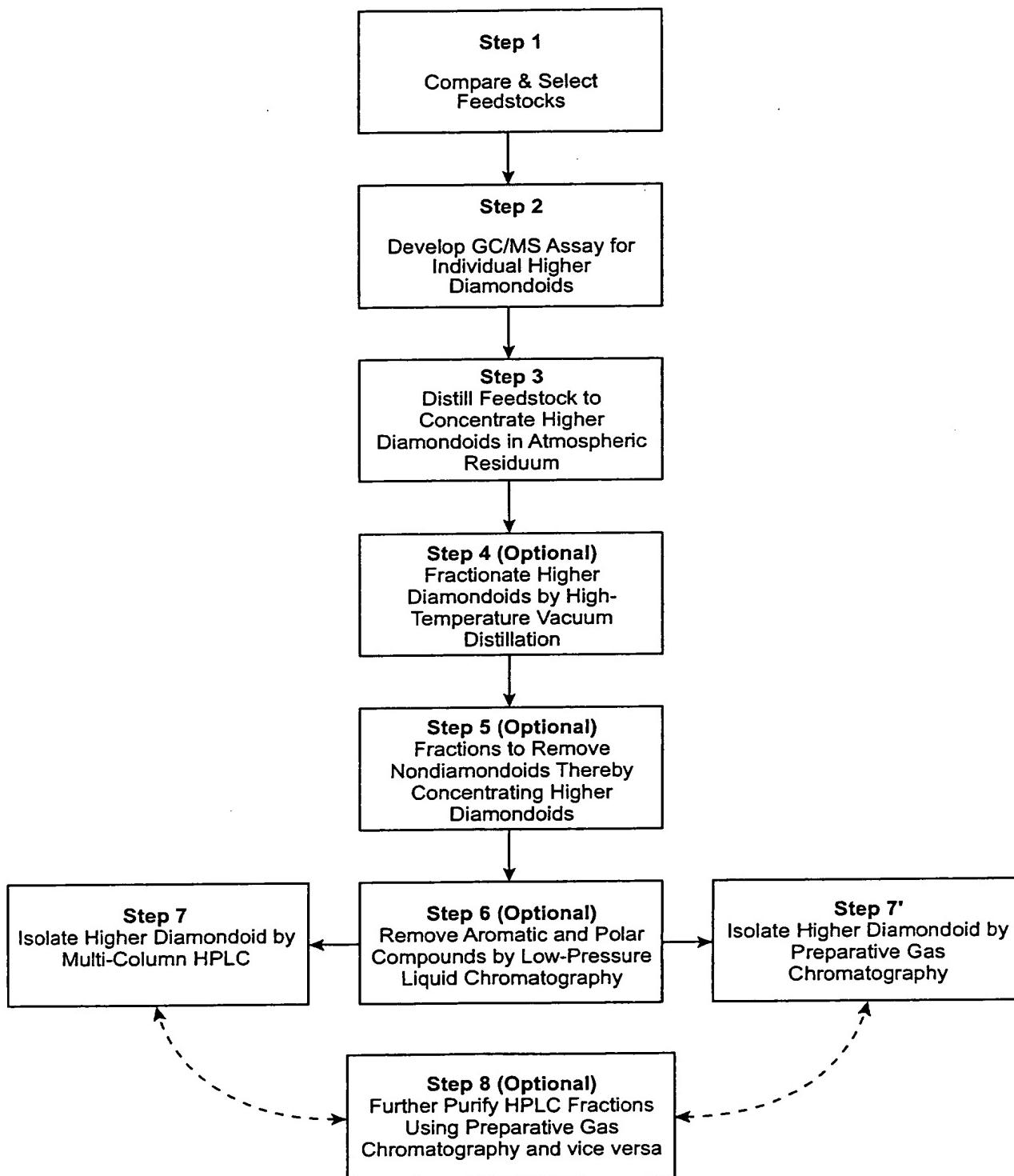


FIG. 4

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FIG. 5A

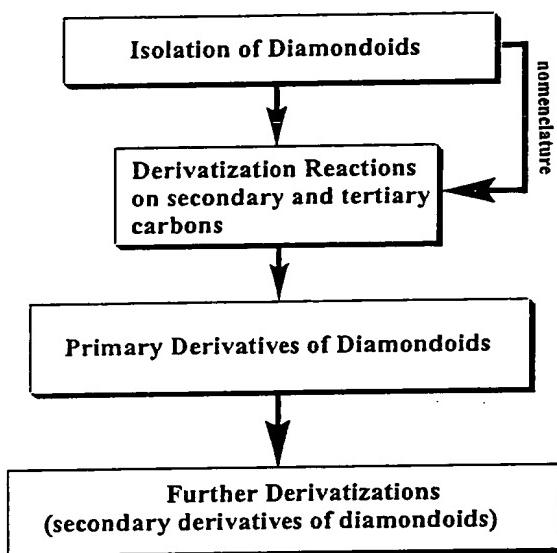
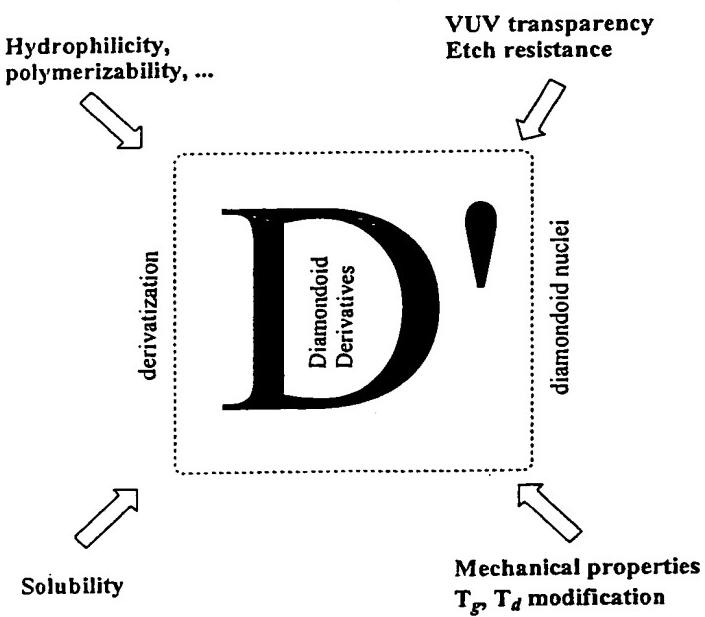


FIG. 5B



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FIG. 6

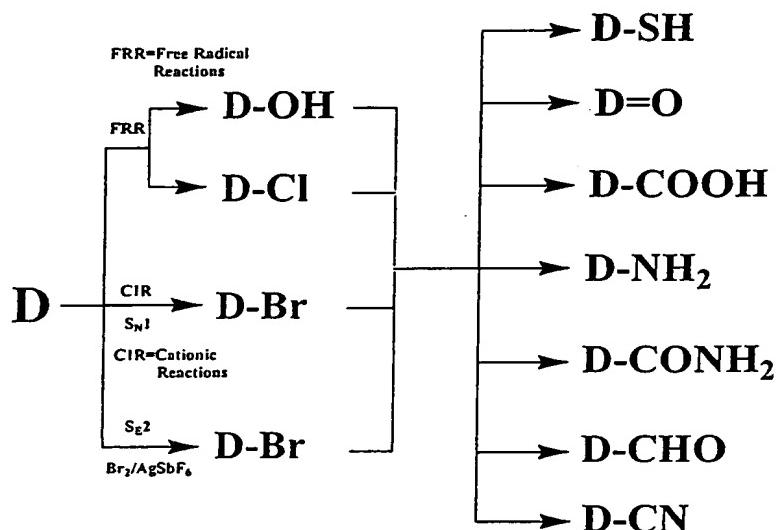
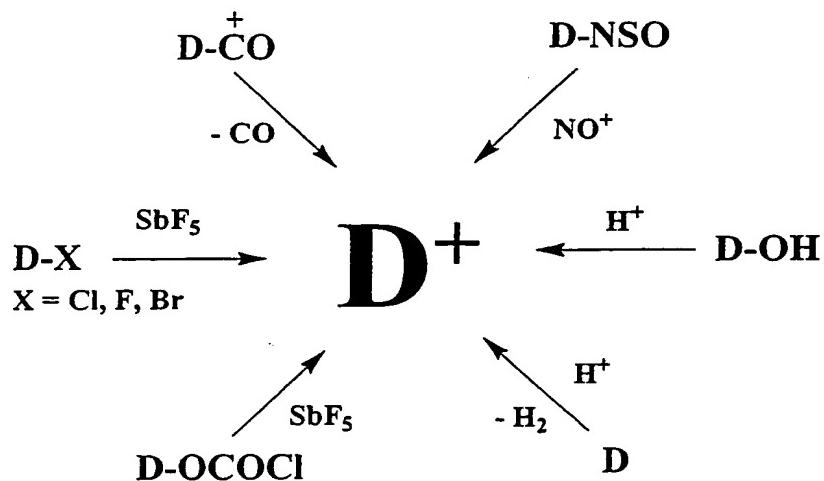


FIG. 7

Representative Ways of Generation of Diamondoid Cations (\mathbf{D}^+)



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FIG. 8

Representative S_N1 Reactions of Diamondoid Carbocations

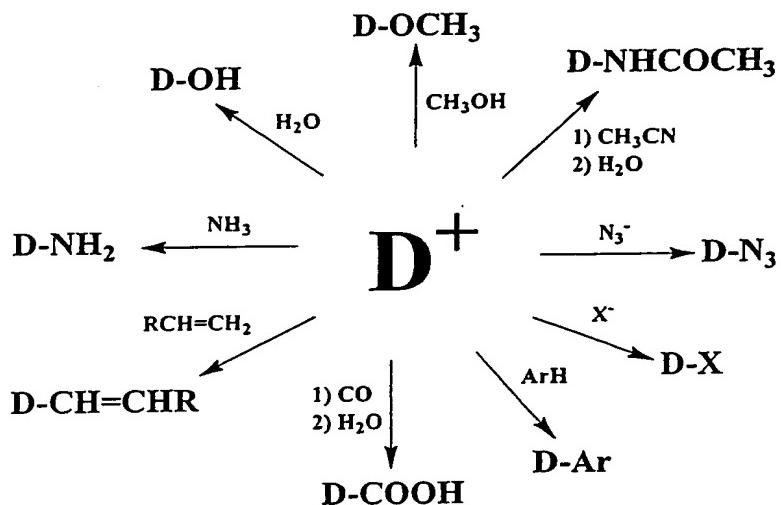
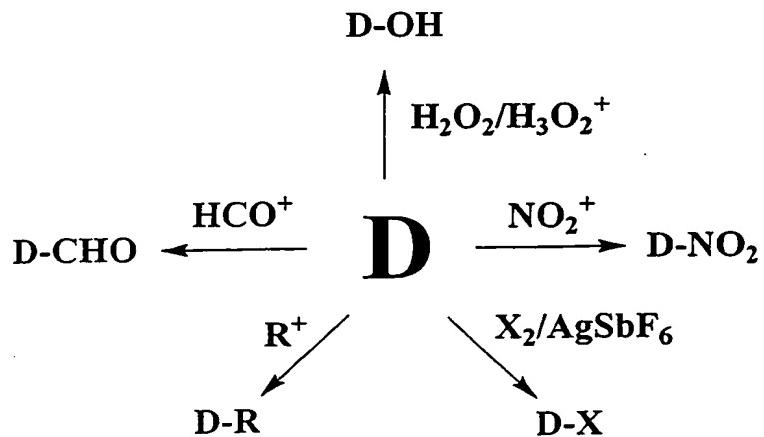


FIG. 9

Representative S_E2 Reactions of Diamondoids



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FIG. 10

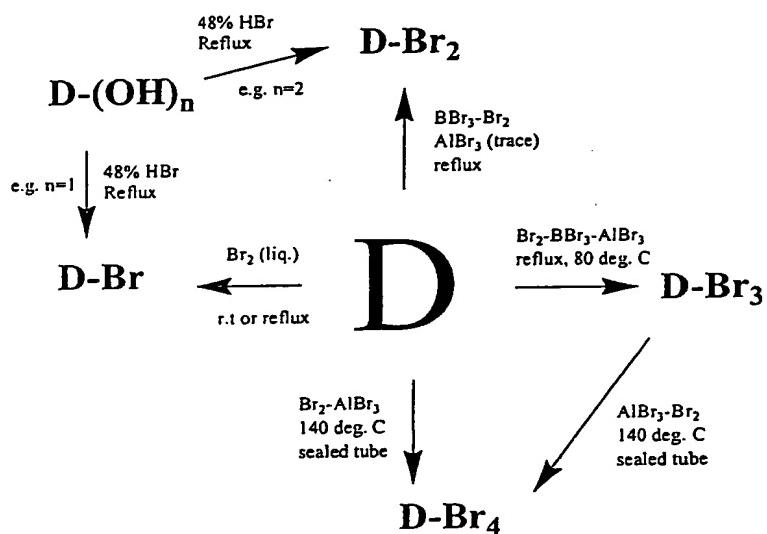
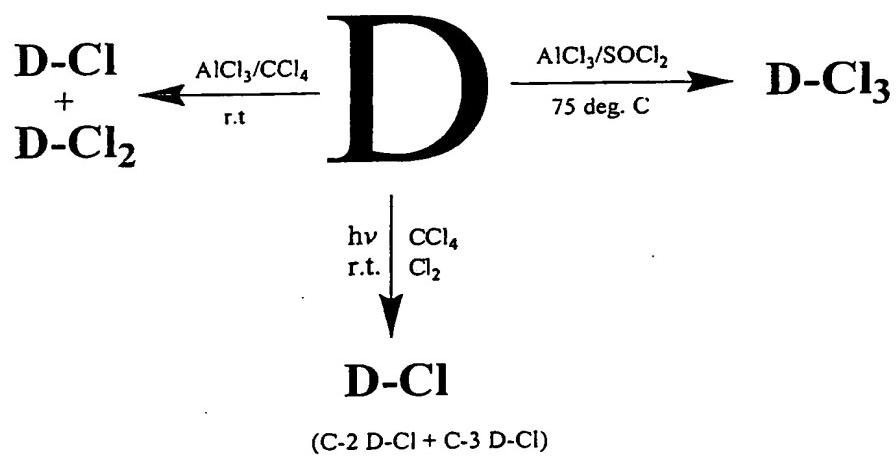


FIG. 11



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FIG. 12

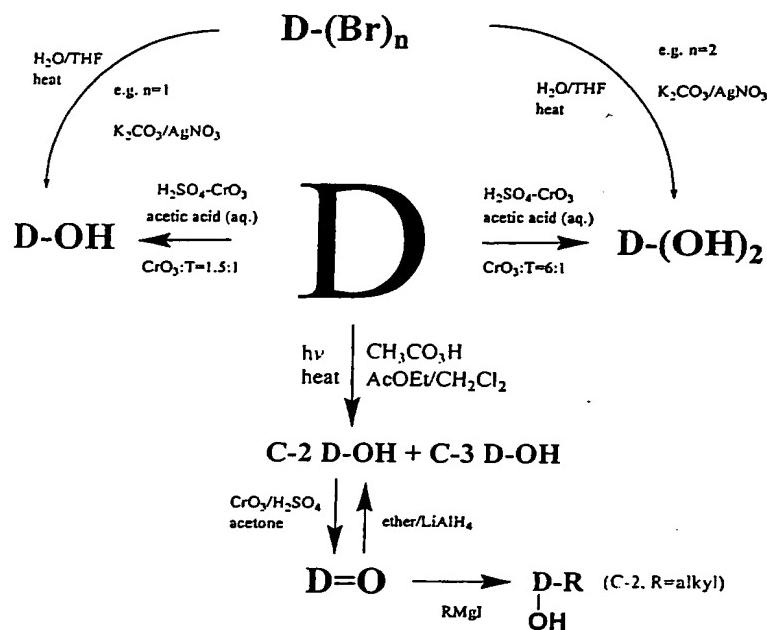
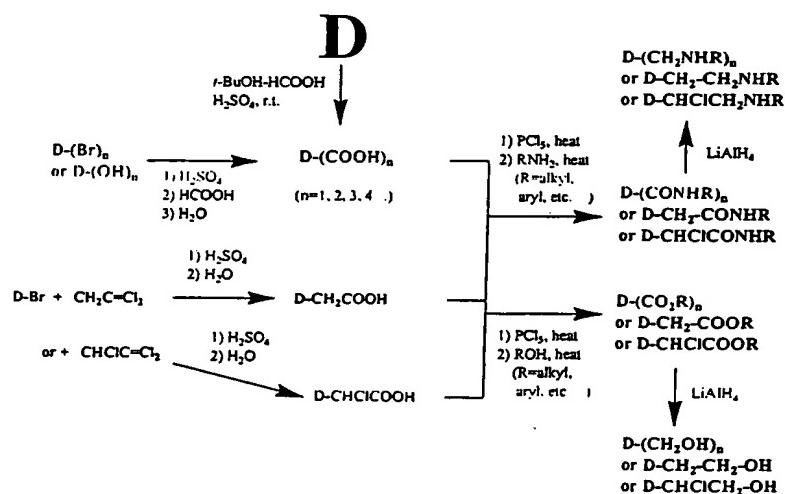


FIG. 13



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FIG. 14

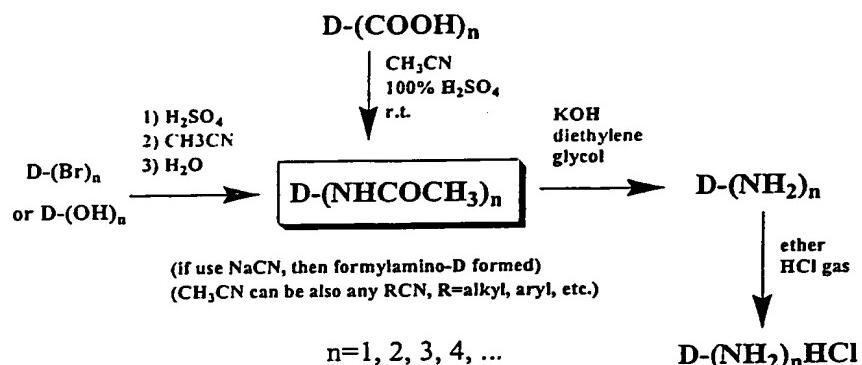
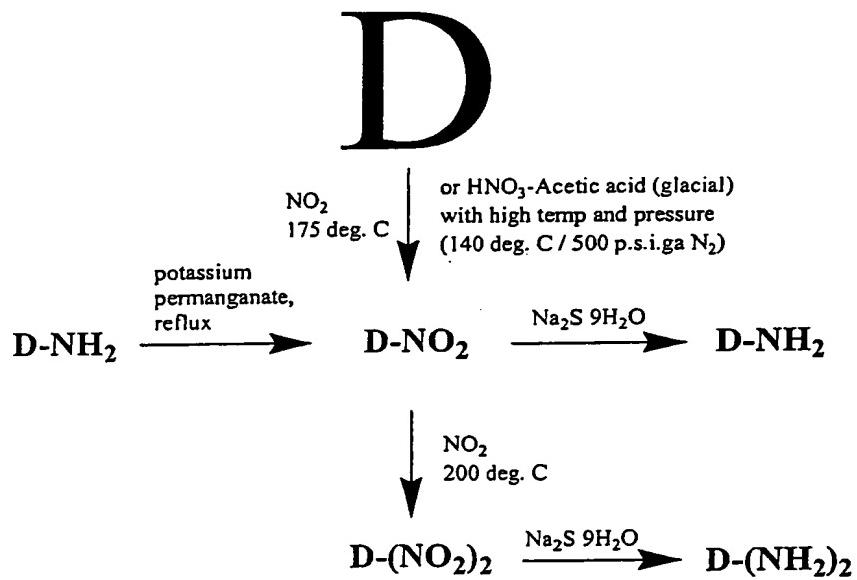


FIG. 15



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FIG. 16

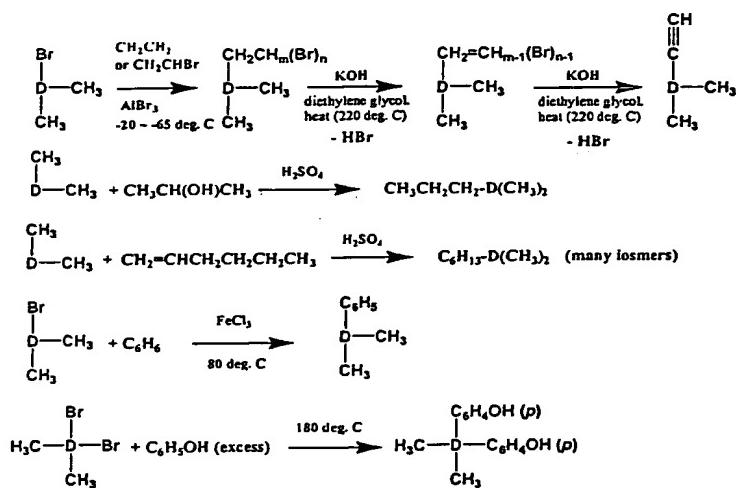
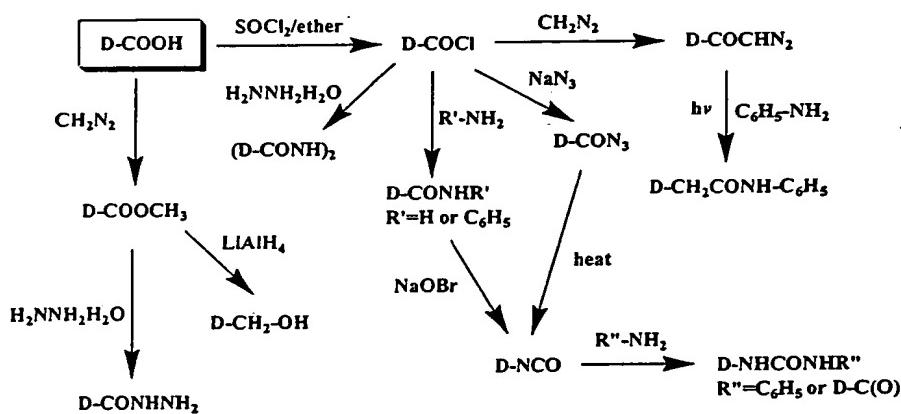


FIG. 17



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FIG. 18

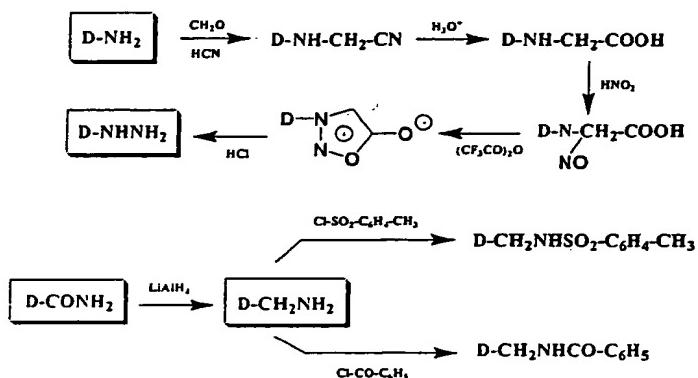


FIG. 19

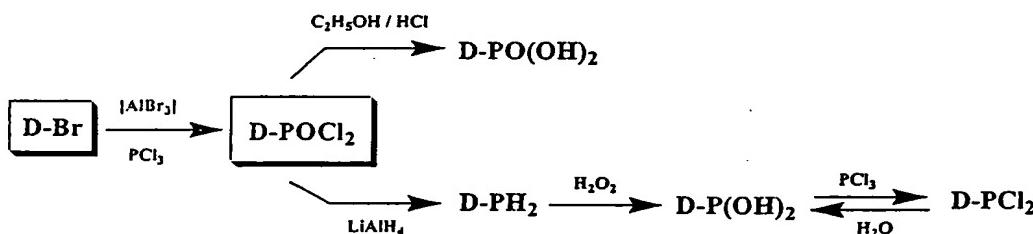
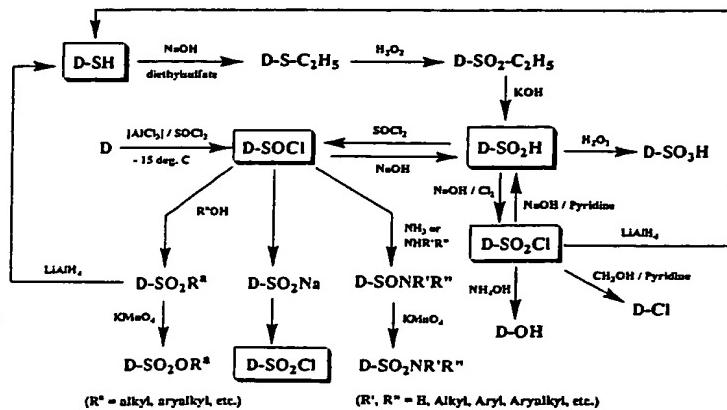


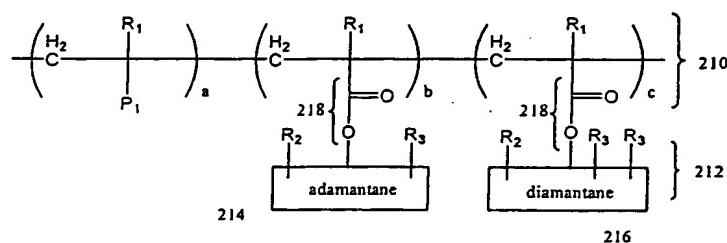
FIG. 20



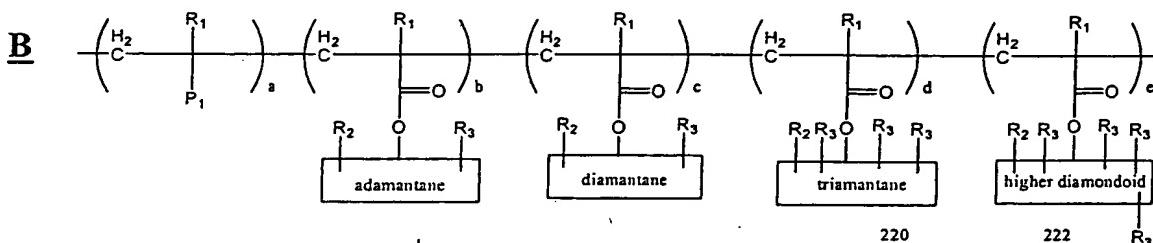
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FIG. 21

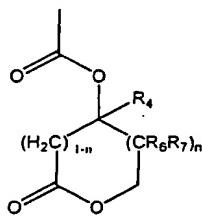
A



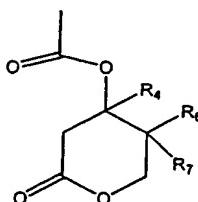
B



C

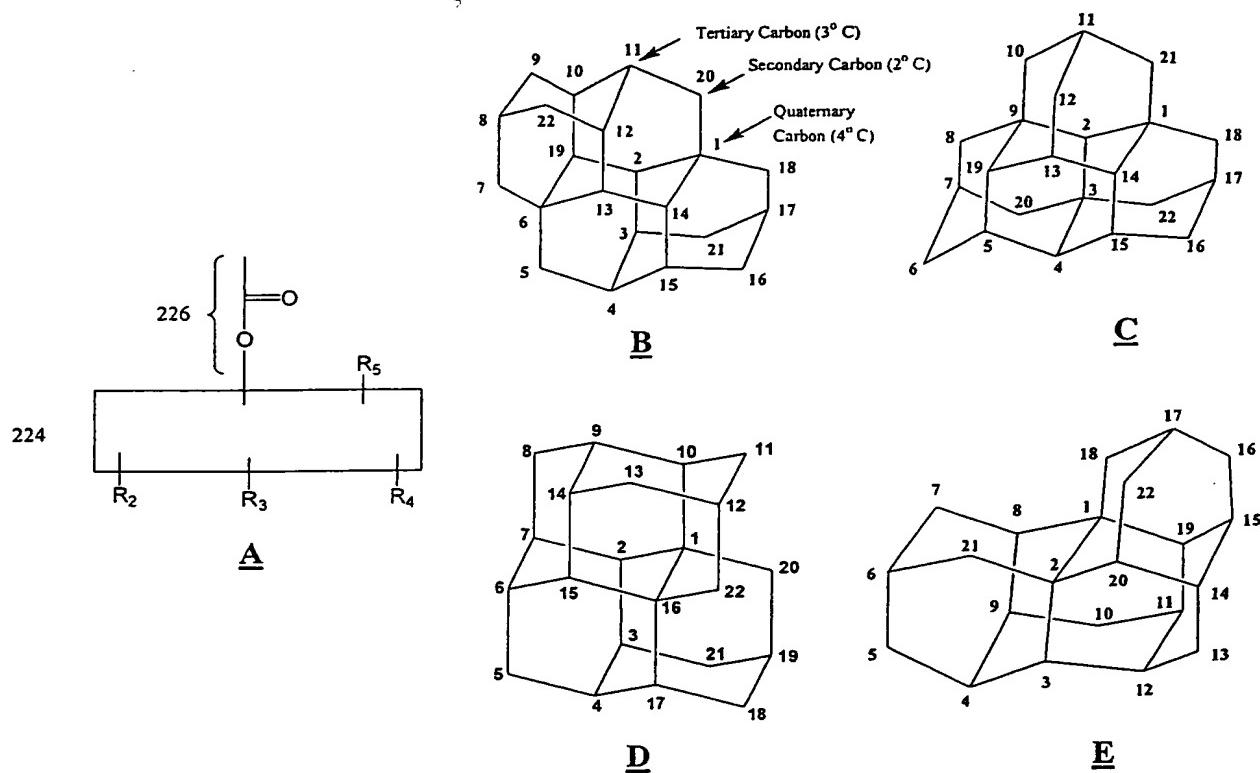


D



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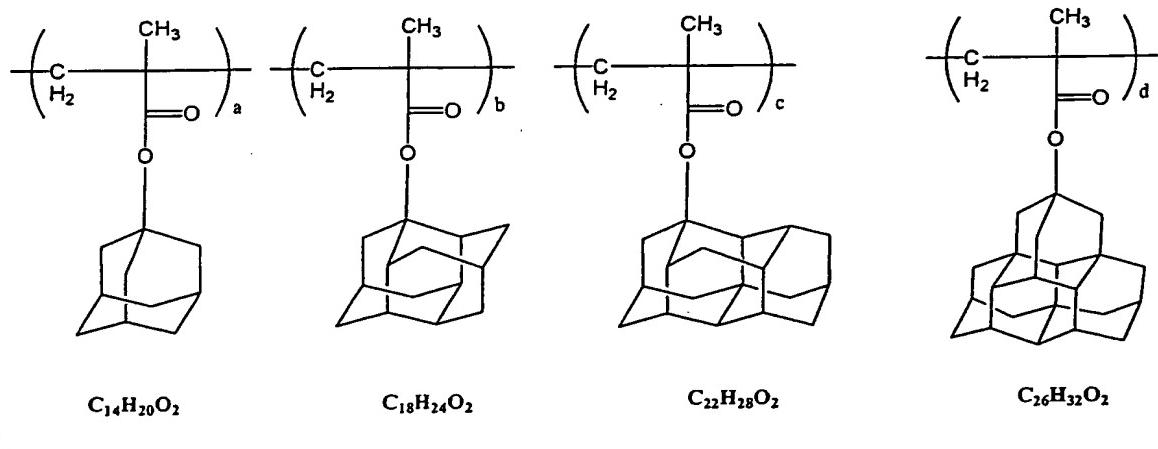
FIG. 22



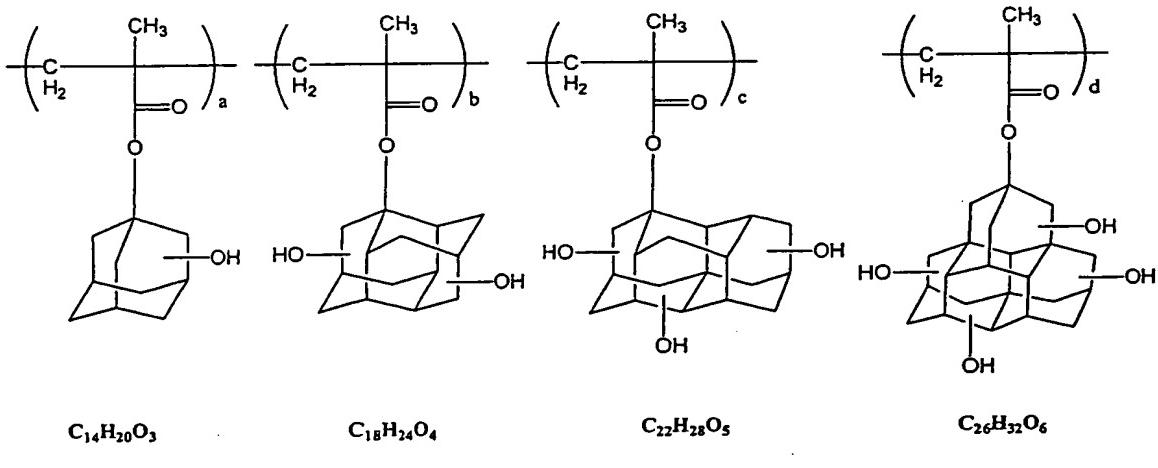
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FIG. 23

A

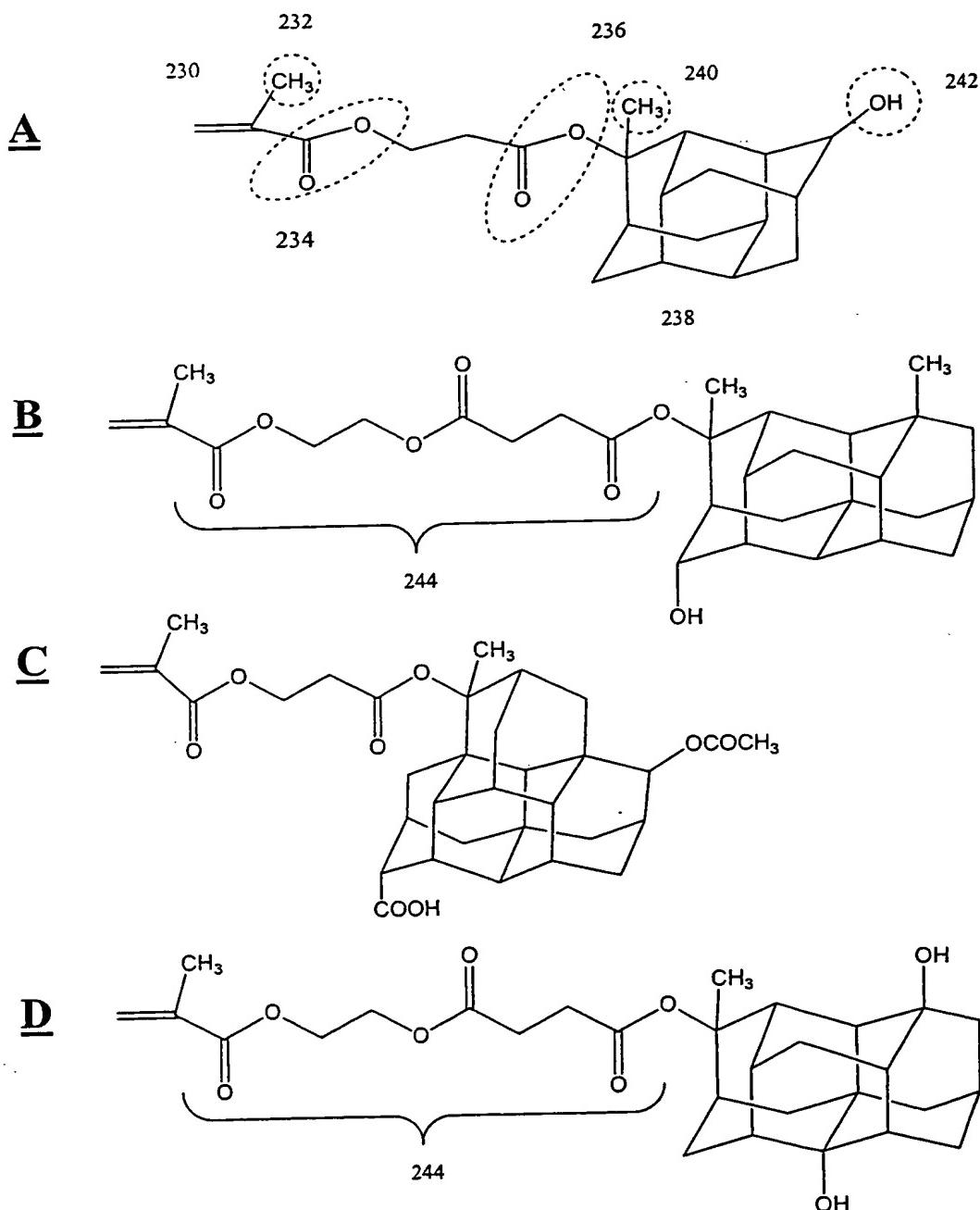


B



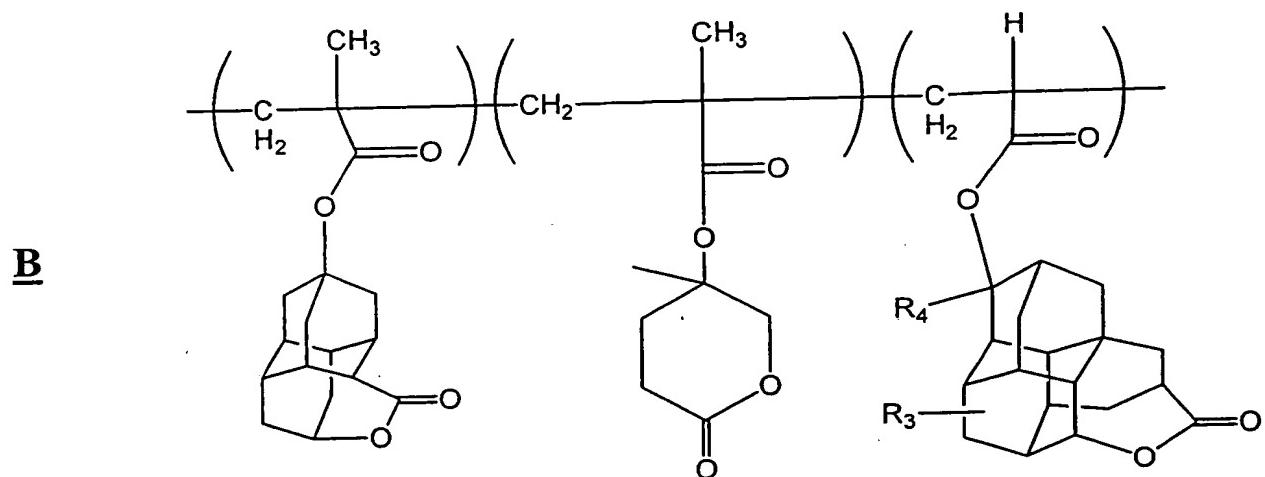
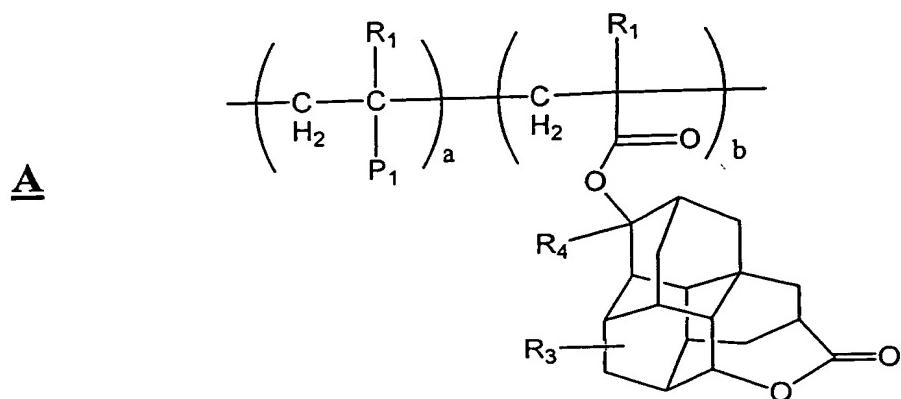
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FIG. 24



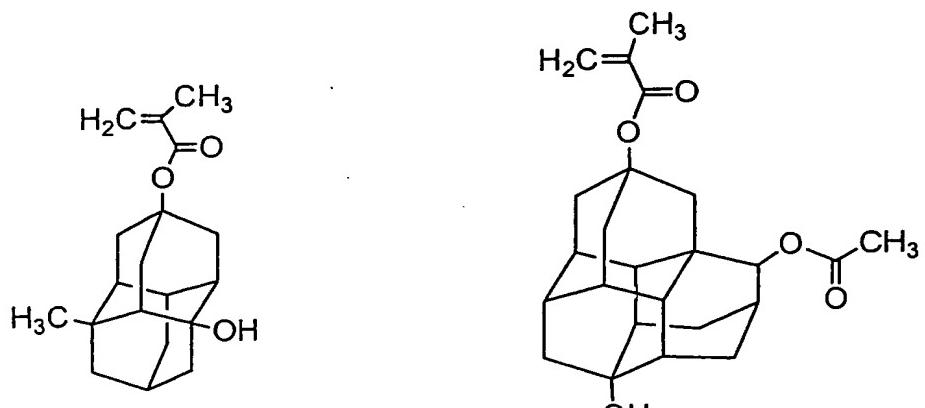
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FIG. 25



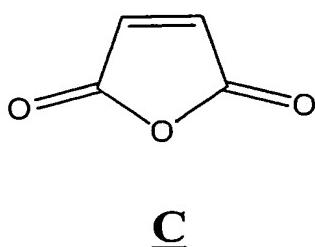
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FIG. 26



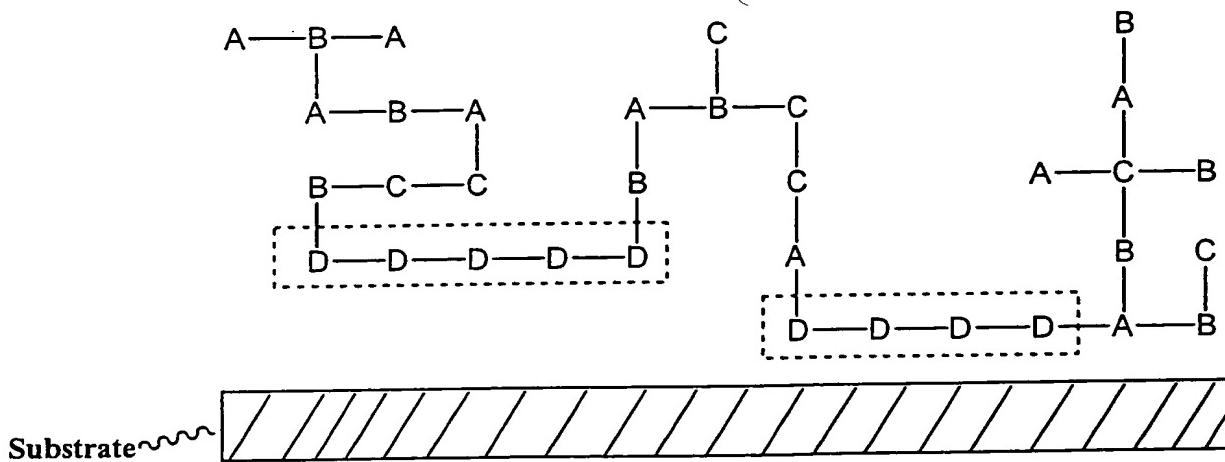
A

B



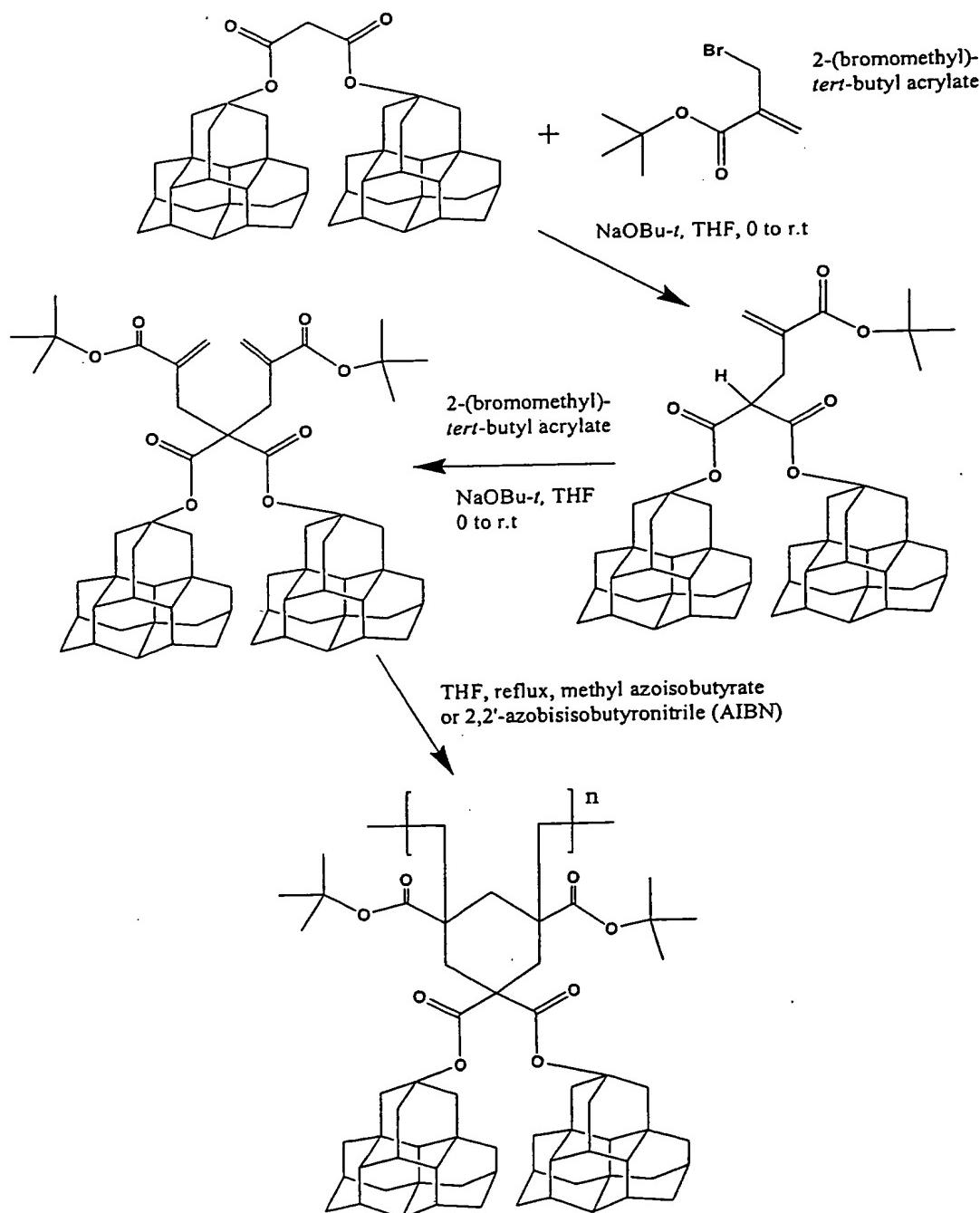
C

D



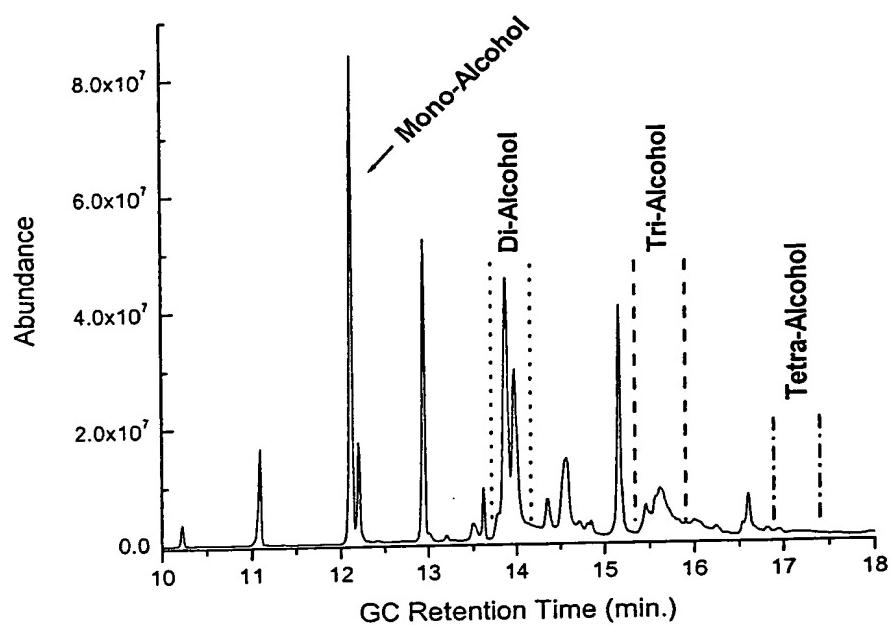
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FIG. 27



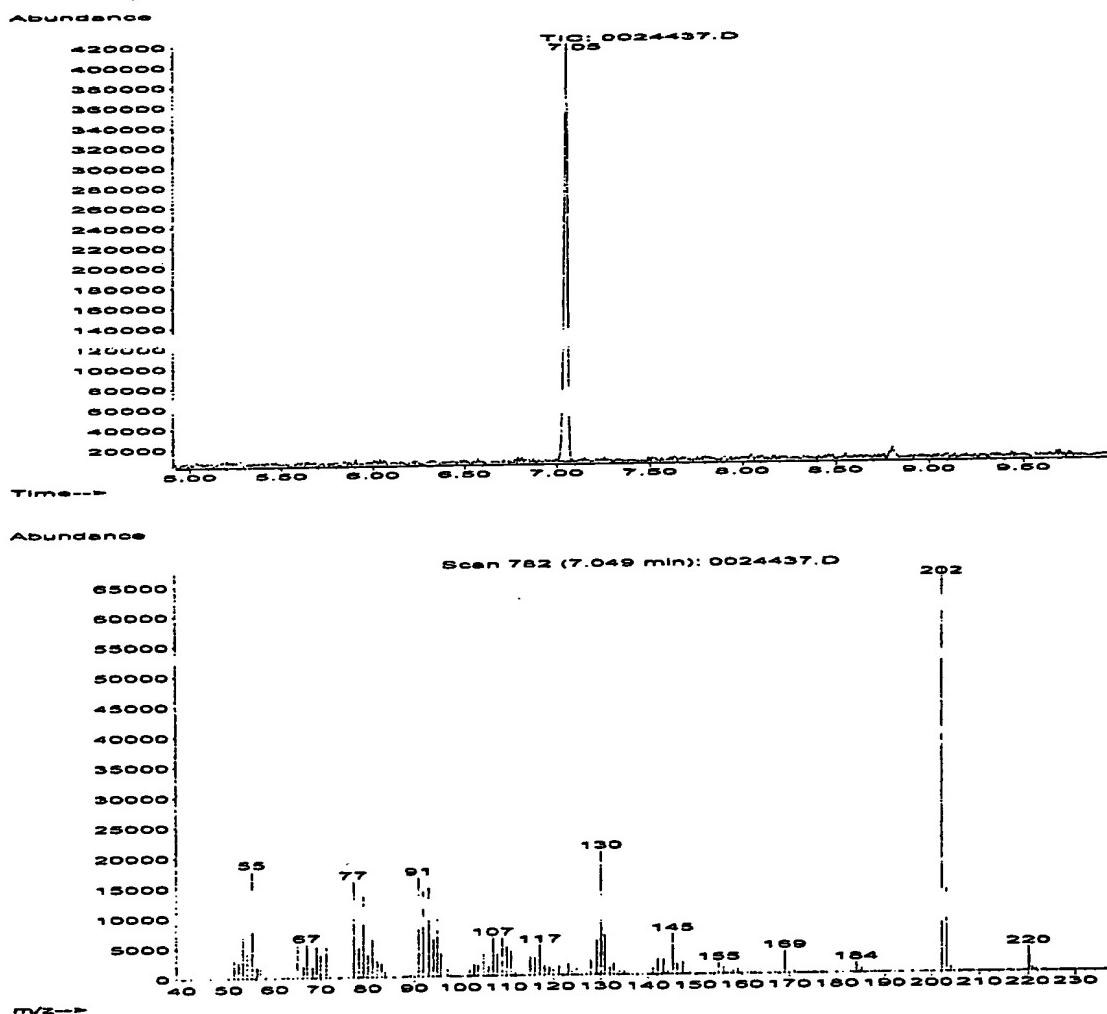
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FIG. 28



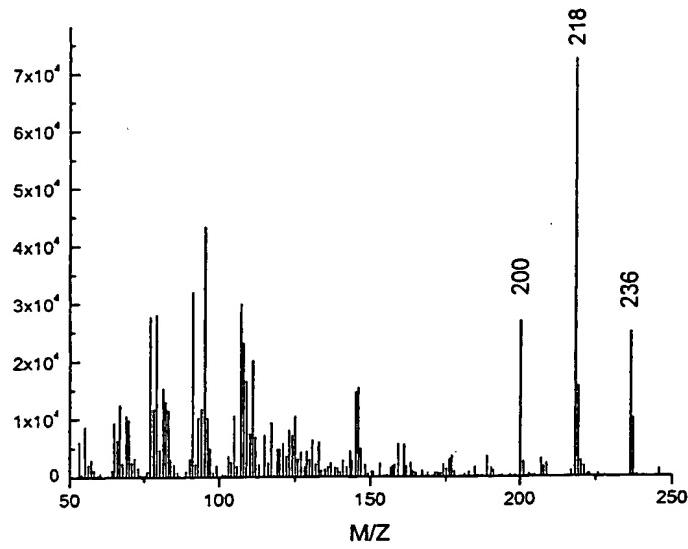
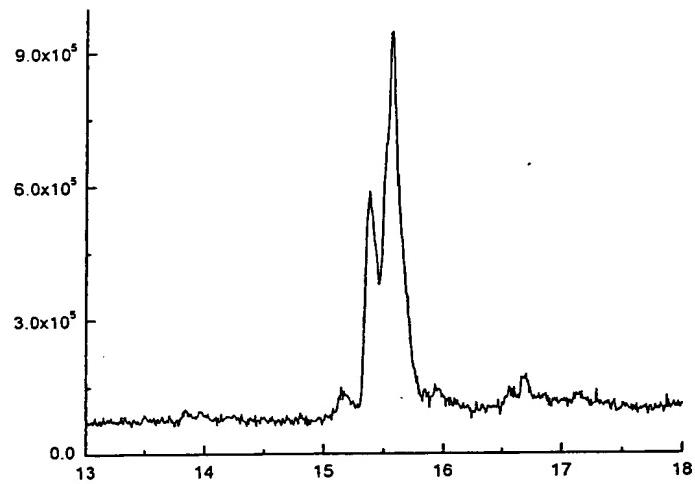
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FIG. 29



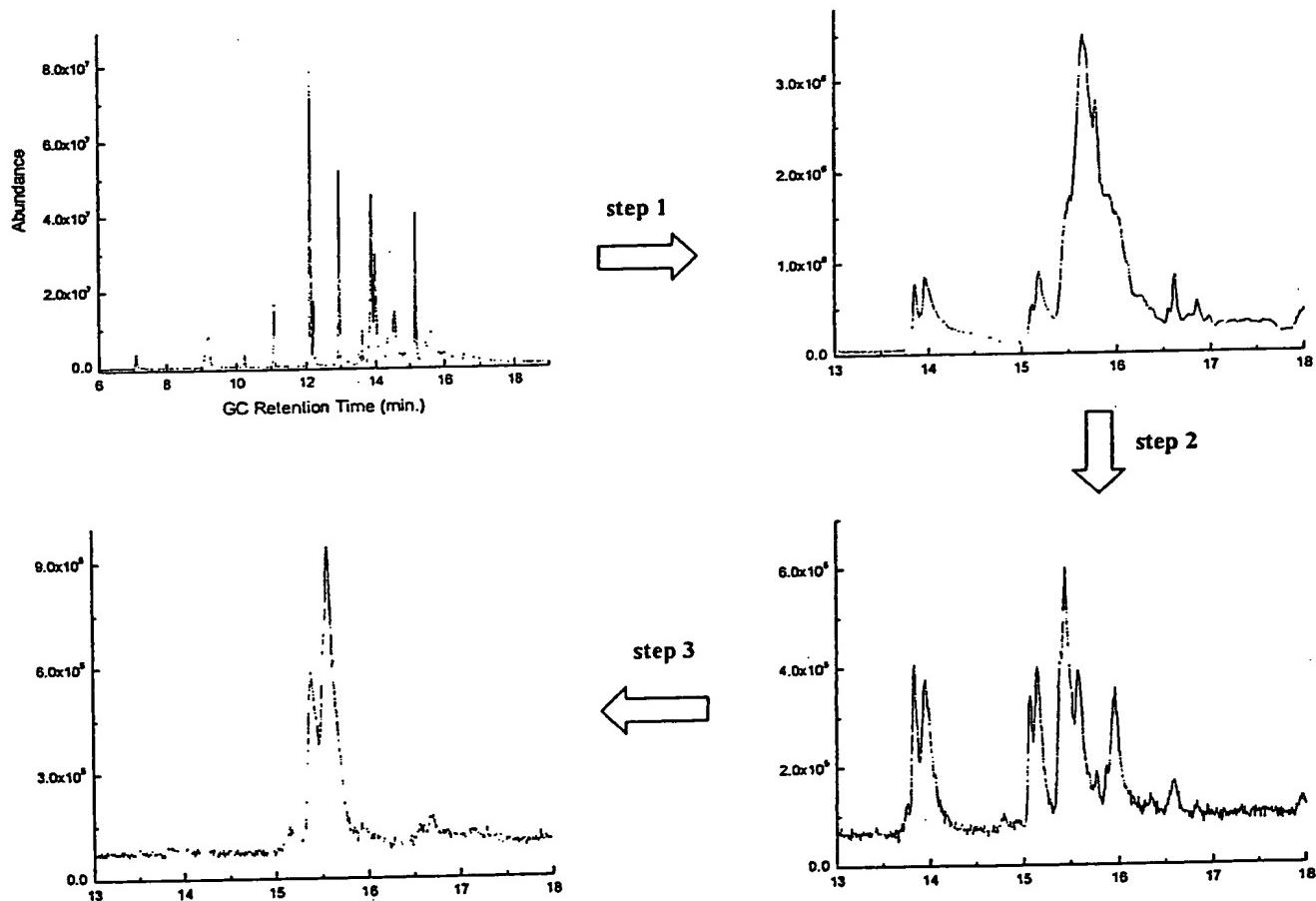
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FIG. 30



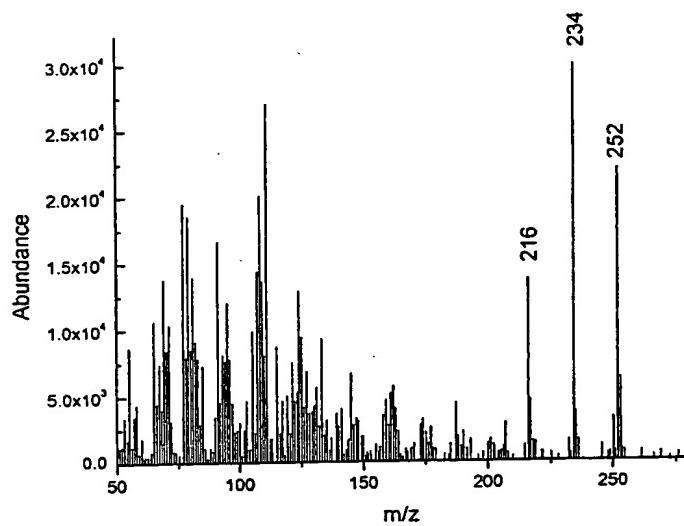
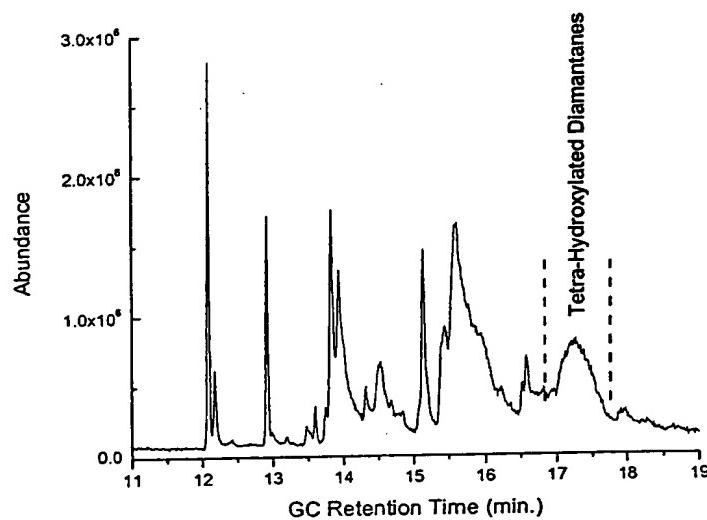
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FIG. 31



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FIG. 32



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FIG. 33A

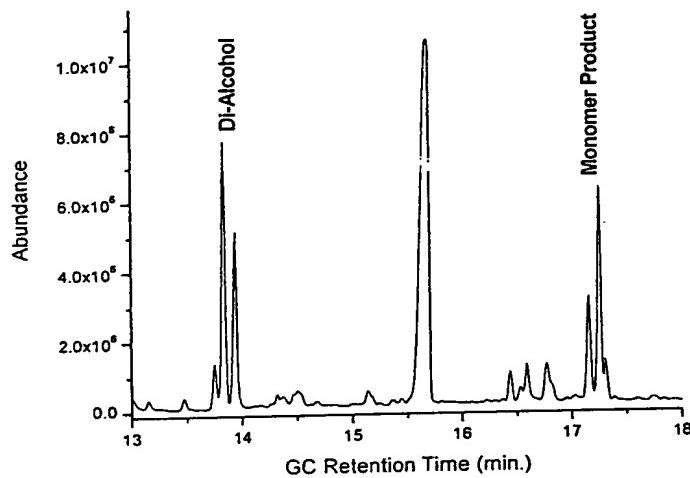
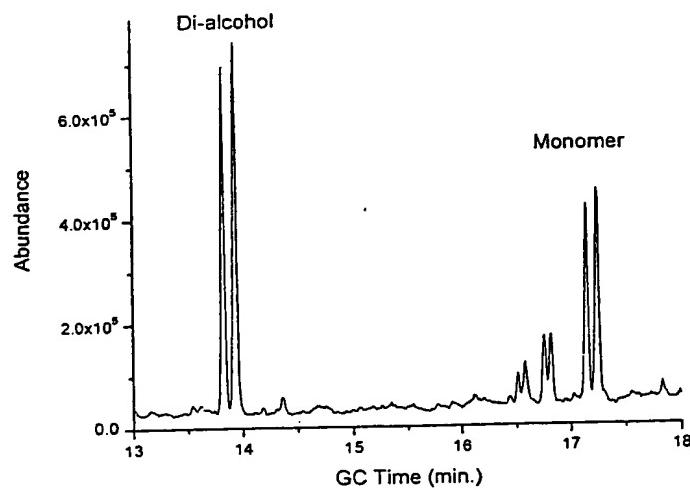


FIG. 33B



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FIG. 34

